

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/062069 A1

(51) International Patent Classification⁷: **G01S 5/14,**
G06F 17/30, 17/60

(21) International Application Number:
PCT/SE2004/001931

(22) International Filing Date:
17 December 2004 (17.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0303533-4 22 December 2003 (22.12.2003) SE

(71) Applicant (for all designated States except US): **ABB RE-
SEARCH LTD [CH/CH];** Affolternstrasse 52, CH-8050
Zürich (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BRATTHALL,**

Lars [NO/NO]; Rugdefaret 8D, N-1341 Slependen (NO).
MATHIESEN, Mogens [NO/NO]; Observatorie terr 11,
N-0270 Oslo NO (NO). **SVENSSON, Stefan [SE/SE];**
Nygatan 9, S-722 14 Västerås (SE).

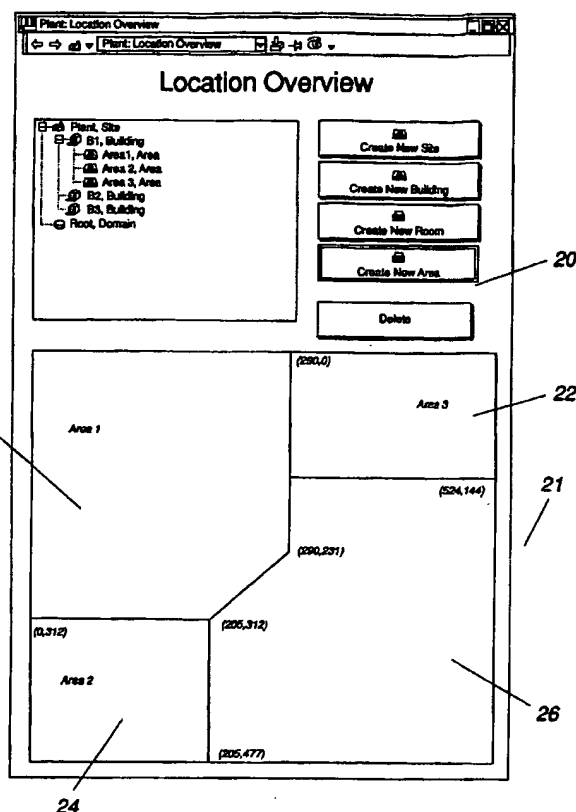
(74) Agent: **ABB AB;** Legal & Compliance/Intellectual Prop-
erty, Forskargränd 8, S-721 78 Västerås (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: A METHOD FOR POSITIONING AND A POSITIONING SYSTEM



(57) Abstract: A method for recording a position of at least one component in a location system of a control system of an industrial facility for an industrial process comprises the following steps. The step of creating a model of the facility, including position coordinates for major parts of the facility. The step of storing the model in a location system storage means. The step of identifying a component. The step of placing a mobile information processing device adjacent the component and detecting position coordinates for the mobile information processing device. The step of storing identification information of the component and position coordinates of the mobile information processing device in the location system storage means.

WO 2005/062069 A1

BEST AVAILABLE COPY



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY